

**Distribution of Radioactivity 72 Hours Following Covered Dermal Administration of
50 mg/kg [¹⁴C]EGEHE in Female Harlan Sprague Dawley Rats – Group 11**

Disposition Summary [Dose Recovered (%)]

Sample	11001	11002	11003	11004	Mean	SD
Total Unabsorbed Dose	49.6	45.0	44.0	35.5	43.5	5.87
Dose Site Swipes	5.19	6.56	2.42	1.86	4.01	2.24
VOC ^a	43.7	38.1	41.0	33.4	39.0	4.42
Total Dose Site Skin	0.67	0.41	0.54	0.25	0.46	0.18
Total Absorbed Dose	37.3	36.2	35.8	33.9	35.8	1.41
Urine	29.4	31.0	26.4	27.6	28.6	2.00
Urine	15.7	23.1	13.9	18.3	17.7	4.02
Cage Rinse	13.7	7.8	12.5	9.3	10.8	2.74
Feces	4.33	2.93	2.74	3.37	3.34	0.71
GI Tract Contents	0.08	0.09	0.13	0.47	0.19	0.18
Tissues	1.58	0.96	5.11	0.99	2.16	1.99
CO ₂	1.90	1.22	1.39	1.45	1.49	0.29
Total Recovered	86.8	81.2	79.7	69.4	79.3	7.28

^aVOC included as unabsorbed dose due to evaporation from dose site

Dose Recovered in Excreta (%)

Sample	Collection Interval (h)	11001	11002	11003	11004	Mean ^a	SD
Urine	4 to 8	9.37	12.51	2.23	8.76	8.22	4.32
Urine	12 to 24	5.39	8.32	10.23	7.77	7.93	2.00
Urine	24 to 48	0.67	1.65	1.12	1.35	1.20	0.42
Urine ^b	48 to 72	0.23	0.63	0.30	0.45	0.40	0.18
Urine Subtotal	–	15.7	23.1	13.9	18.3	17.7	4.02
Cage Rinse	4 to 8	11.68	5.08	11.13	7.34	8.81	3.14
Cage Rinse	12 to 24	1.18	1.68	1.00	1.32	1.29	0.29
Cage Rinse	24 to 48	0.56	0.63	0.26	0.32	0.44	0.18
Cage Rinse	48 to 72	0.30	0.46	0.14	0.30	0.30	0.13
Cage Rinse Subtotal	–	13.7	7.85	12.5	9.28	10.8	2.74
Feces	0 to 24	1.84	1.50	1.86	2.34	1.88	0.34
Feces	24 to 48	2.30	0.91	0.54	0.58	1.08	0.83
Feces	48 to 72	0.19	0.52	0.34	0.44	0.37	0.14
Feces Subtotal	–	4.33	2.93	2.74	3.37	3.34	0.76
CO ₂	0 to 4	0.93	0.28	0.30	0.35	0.47	0.31
CO ₂	4 to 8	0.42	0.35	0.45	0.37	0.40	0.05
CO ₂	8 to 12	0.16	0.15	0.18	0.23	0.18	0.03
CO ₂	12 to 24	0.20	0.27	0.26	0.31	0.26	0.05
CO ₂	24 to 48	0.15	0.12	0.11	0.14	0.13	0.02
CO ₂	48 to 72	0.03	0.06	0.09	0.04	0.06	0.02
CO₂ Subtotal	–	1.90	1.22	1.39	1.45	1.49	0.16
VOC	0 to 4	7.36	3.52	6.92	5.42	5.81	1.74
VOC	4 to 8	9.03	6.05	6.89	4.49	6.61	1.89
VOC	8 to 12	5.15	4.28	3.86	3.29	4.14	0.78
VOC	12 to 24	8.45	9.49	9.36	7.92	8.80	0.75
VOC	24 to 48	8.25	9.29	8.38	8.28	8.55	0.50
VOC	48 to 72	5.45	5.43	5.60	3.98	5.12	0.76
VOC Subtotal	–	43.69	38.06	40.99	33.38	39.03	1.87

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Distribution in Tissues (72 Hours)

Tissue ^c	ng-eq/g Mean	ng-eq/g SD	TBR Mean ^d	TBR SD	Percent Recovery Mean	Percent Recovery SD
Blood	8.24	10.68	–	–	0.24	0.32
Adipose	3.56	1.06	1.08	0.69	0.09	0.02
Muscle	5.04	5.71	1.79	2.60	0.76	0.90
Skin	6.94	8.74	2.55	3.88	0.50	0.64
Brain	3.54	3.00	1.12	1.47	0.01	0.01
Heart	3.57	0.31	0.98	0.58	<0.01	<0.01
Kidneys	6.31	1.08	1.76	1.06	0.02	<0.01
Liver	26.54	30.96	9.52	13.99	0.41	0.49
Lung	14.83	16.28	5.14	7.50	0.03	0.03
Spleen	9.99	9.62	3.45	4.54	0.01	0.01
Thyroid	20.18	27.22	7.49	11.98	<0.01	<0.01
Urinary Bladder	7.85	3.83	2.51	2.17	<0.01	<0.01
Pancreas	5.14	0.71	1.45	0.88	0.01	<0.01
Testes/Ovaries	5.56	0.82	1.57	0.92	0.01	0.01
Large Intestine	6.37	1.82	1.95	1.35	0.03	0.01
Small Intestine	6.37	1.82	1.95	1.35	0.03	0.01
Stomach	5.29	1.10	1.51	0.90	0.01	<0.01
Total	–	–	–	–	2.16	1.99

^aAll values expressed as mean ± standard deviation (SD) (N = 4). h = hours.

^bFinal urine collection includes urine present in the urinary bladder at study termination.

^cTissue weights for the dispersed tissues were calculated using the following percentages of body weight: adipose 7.0%, blood 7.4%, muscle 40.4%, and skin 19% (International Life Sciences Institute, 1994).

^dTBR = Tissue to blood ratio.